

Key West, Florida Coastal Digital Elevation Model

[spatialRepresentationInfo](#)
[referenceSystemInfo](#)
[referenceSystemInfo](#)
[identificationInfo](#)
[identificationInfo](#)
[identificationInfo](#)
[distributionInfo](#)
[dataQualityInfo](#)
[metadataMaintenance](#)
[acquisitionInformation](#)

(MI_Metadata)

fileIdentifier: gov.noaa.ngdc.mgg.dem:3121
language: eng; USA
characterSet: (MD_CharacterSetCode) utf8
hierarchyLevel: (MD_ScopeCode) dataset
contact: *title: Kelly Carignan* (CI_ResponsibleParty) *uuid: dad4ff9a-31bd-47dc-a653-8ae3e7948944*
individualName: Kelly Carignan
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: kelly.carignan@noaa.gov
role: (CI_RoleCode) pointOfContact
dateStamp: 2012-09-12
metadataStandardName: ISO 19115-2 Geographic Information - Metadata - Part 2: Extensions for Imagery and Gridded Data
metadataStandardVersion: ISO 19115-2:2009(E)
[return to top](#)

spatialRepresentationInfo: (MD_GridSpatialRepresentation)
numberOfDimensions: 3
axisDimensionProperties: (MD_Dimension)
dimensionName: (MD_DimensionNameTypeCode) row
dimensionSize: 11233
resolution:
Measure: *decimalDegrees* 0.00009259259
axisDimensionProperties: (MD_Dimension)
dimensionName: (MD_DimensionNameTypeCode) column
dimensionSize: 9829
resolution:
Measure: *decimalDegrees* 0.00009259259
axisDimensionProperties: (MD_Dimension)
dimensionName: (MD_DimensionNameTypeCode) vertical
dimensionSize: 1
cellGeometry: (MD_CellGeometryCode) area
transformationParameterAvailability: true

[return to top](#)

referenceSystemInfo: *title: WGS84 (MD_ReferenceSystem) uuid: 2504d000-8345-11e1-b0c4-0800200c9a66*
referenceSystemIdentifier: (RS_Identifier)
authority: (CI_Citation)
title: World Geodetic System 1984
alternateTitle: WGS 84
date: (CI_Date)
date: 2007-08-27
dateType: (CI_DateTypeCode) revision
citedResponsibleParty: (CI_ResponsibleParty)
positionName: Citation URL
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.epsg-registry.org/export.htm?gml=urn:ogc:def:crs:EPSG::4326>
role: (CI_RoleCode) resourceProvider
code: urn:ogc:def:crs:EPSG::4326

[return to top](#)

referenceSystemInfo: *title: NAVD88 (MD_ReferenceSystem) uuid: 7bfef30a-970e-48de-a173-675dc4b61695*
referenceSystemIdentifier: (RS_Identifier)
authority: (CI_Citation)
title: North American Vertical Datum 1988
alternateTitle: NAVD88
date: (CI_Date)
date: 2010-03-30
dateType: (CI_DateTypeCode) revision
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: OGP
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.epsg-registry.org/export.htm?gml=urn:ogc:def:datum:EPSG::5103>
name: NAVD88
description: Link to Geographic Markup Language (GML) description of reference system.
function: (CI_OnLineFunctionCode) information
role: (CI_RoleCode) resourceProvider
citedResponsibleParty: *title: EPSG Registry (CI_ResponsibleParty) uuid: 68498237-c535-48dd-a292-17c2fc36cb97*
organisationName: European Petroleum Survey Group
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.epsg-registry.org/>
name: European Petroleum Survey Group Geodetic Parameter Registry
description: Registry that accesses the EPSG Geodetic Parameter Dataset, which is a structured dataset of Coordinate Reference Systems and Coordinate Transformations.
function: (CI_OnLineFunctionCode) search
role: (CI_RoleCode) publisher
code: EPSG::5103

[return to top](#)

identificationInfo: (MD_DataIdentification)
citation: (CI_Citation)
title: Key West, Florida Coastal Digital Elevation Model

date: (CI_Date)
date: 2011-09-01
dateType: (CI_DateTypeCode) publication
edition: First
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
contactInfo: (CI_Contact)
address: (CI_Address)
city: Boulder
administrativeArea: Colorado
role: (CI_RoleCode) publisher
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
role: (CI_RoleCode) originator
citedResponsibleParty: (CI_ResponsibleParty)
positionName: Citation URL
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/getReport/3121>
name: Key West, FL 1/3 arc-second Tsunami Inundation DEM
description: Download page for accessing DEM, metadata record and development

report.

function: (CI_OnLineFunctionCode) download
role: *inapplicable*
citedResponsibleParty: (CI_ResponsibleParty)
positionName: Citation URL
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.ngdc.noaa.gov/mgg/inundation/tsunami/inundation.html>
name: NOAA Tsunami Inundation Gridding Project
description: Project web page.
function: (CI_OnLineFunctionCode) information
role: *inapplicable*
presentationForm: (CI_PresentationFormCode) mapDigital
series: (CI_Series)
name: NOAA Tsunami Inundation DEMs
issueIdentification: Key West, Florida

abstract: NOAA's National Geophysical Data Center (NGDC) is building high-resolution digital elevation models (DEMs) for select U.S. coastal regions. These integrated bathymetric-topographic DEMs are used to support tsunami forecasting and modeling efforts at the NOAA Center for Tsunami Research, Pacific Marine Environmental Laboratory (PMEL). The DEMs are part of the tsunami forecast system SIFT (Short-term Inundation Forecasting for Tsunamis) currently being developed by PMEL for the NOAA Tsunami Warning Centers, and are used in the MOST (Method of Splitting Tsunami) model developed by PMEL to simulate tsunami generation, propagation, and inundation. Bathymetric, topographic, and shoreline data used in DEM compilation are obtained from various sources, including NGDC, the U.S. National Ocean Service (NOS), the U.S. Geological Survey (USGS), the U.S. Army Corps of Engineers (USACE), the Federal Emergency Management Agency (FEMA), and other federal, state, and local government agencies, academic institutions, and private companies. DEMs are referenced to the vertical tidal datum of Mean High Water (MHW) and horizontal datum of World Geodetic System 1984 (WGS84). Grid spacings for the DEMs range from 1/3 arc-second (~10 meters) to 3 arc-seconds (~90 meters).

purpose: Developed for the Pacific Marine Environmental Laboratory (PMEL), NOAA Center for Tsunami Research program in support of NOAA's tsunami forecasting and warning efforts.

status: (MD_ProgressCode) completed

pointOfContact: *title: DEM Info* (CI_ResponsibleParty) *uuid: 936e0d44-7e51-4b06-be51-e9b445e19a7d*

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
positionName: DEM Information
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: dem.info@noaa.gov
role: (CI_RoleCode) pointOfContact
resourceMaintenance: (MD_MaintenanceInformation)
maintenanceAndUpdateFrequency: (MD_MaintenanceFrequencyCode) asNeeded
graphicOverview: (MD_BrowseGraphic)
fileName: <http://www.ngdc.noaa.gov/dem/squareCellGrid/getGraphic/3121>
fileDescription: Perspective view of DEM
fileType: JPEG
descriptiveKeywords: (MD_Keywords)
keyword: Earth Science > Oceans > Bathymetry/Seafloor Topography > Seafloor Topography
keyword: Earth Science > Oceans > Bathymetry/Seafloor Topography > Bathymetry
keyword: Earth Science > Oceans > Bathymetry/Seafloor Topography > Water Depth
keyword: Earth Science > Land Surface > Topography > Terrain Elevation
keyword: Earth Science > Land Surface > Topography > Topographical Relief
keyword: Earth Science > Oceans > Coastal Processes > Coastal Elevation
type: (MD_KeywordTypeCode) theme
thesaurusName: (CI_Citation)
title: NASA/GCMD Earth Science Keywords
date: *unknown*
descriptiveKeywords: (MD_Keywords)
keyword: DEM > Digital Elevation Model
type: (MD_KeywordTypeCode) theme
thesaurusName: (CI_Citation)
title: NASA/GCMD Platform Keywords
date: *unknown*
descriptiveKeywords: (MD_Keywords)
keyword: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
keyword: WDC/MGG, BOULDER > World Data Center for Marine Geology and Geophysics, Boulder
type: (MD_KeywordTypeCode) theme
thesaurusName: (CI_Citation)
title: NASA/GCMD Data Center Keywords
date: *unknown*
descriptiveKeywords: (MD_Keywords)
keyword: H: 1 meter - < 30 meters
keyword: V: < 1 meter
type: (MD_KeywordTypeCode) theme
thesaurusName: (CI_Citation)
title: NASA/GCMD Data Resolution Keywords
date: *unknown*
descriptiveKeywords: (MD_Keywords)
keyword: Coastal Relief
keyword: Gridded elevations
keyword: Integrated bathymetry and topography
type: (MD_KeywordTypeCode) theme
thesaurusName: (CI_Citation)
title: Uncontrolled
date: *unknown*
descriptiveKeywords: (MD_Keywords)
keyword: Ocean > Atlantic > Gulf of Mexico > Florida Keys
keyword: Vertical Location > Land Surface

keyword: Vertical Location > Sea Floor
type: (MD_KeywordTypeCode) place
thesaurusName: (CI_Citation)
title: NASA/GCMD Location Keywords
date: *unknown*

descriptiveKeywords: (MD_Keywords)

keyword: Key West
keyword: Boca Chica Key
keyword: Sugarloaf Key
keyword: Bahia Honda Key
keyword: Cudjo Key
keyword: Big Pine Key
keyword: Florida
type: (MD_KeywordTypeCode) place
thesaurusName: (CI_Citation)
title: Uncontrolled
date: *unknown*

resourceConstraints: *title: not for navigation* (MD_Constraints) *uuid: 103da706-402a-41cf-adc9-e709dd0ebea5*

useLimitation: Not to be used for navigation. Although these data are of high quality and useful for planning and modeling purposes, they are not suitable for navigation. For navigation, please refer to the NOS nautical chart series. <http://chartmaker.ncd.noaa.gov/>

resourceConstraints: *title: copyright statement* (MD_Constraints) *uuid: 295cb881-4997-4a93-b31a-10855ef59b83*

useLimitation: Produced by the NOAA National Geophysical Data Center. Not subject to copyright protection within the United States.

resourceConstraints: *title: NOAA disclaimer* (MD_LegalConstraints) *uuid: dadd4ac3-2b9f-4db5-8603-71285b94c3d7*

useLimitation: While every effort has been made to ensure that these data are accurate and reliable within the limits of the current state of the art, NOAA cannot assume liability for any damages caused by any errors or omissions in the data, nor as a result of the failure of the data to function on a particular system. NOAA makes no warranty, expressed or implied, nor does the fact of distribution constitute such a warranty.

aggregationInfo: (MD_AggregateInformation)

aggregateDataSetName: (CI_Citation)

title: NOAA Tsunami Inundation Gridding Project

date: (CI_Date)

date: 2008-10-31

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

contactInfo: (CI_Contact)

address: (CI_Address)

city: Boulder

administrativeArea: Colorado

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/OAR/PMEL/NCTR > NOAA Center for Tsunami Research, Pacific Marine Environmental Laboratory, OAR, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.ngdc.noaa.gov/mgg/inundation/tsunami/inundation.html>
name: NOAA Tsunami Inundation Gridding Project
description: Project web page.
function: (CI_OnLineFunctionCode) information
role: *inapplicable*

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: *title: DEM Map Search* (CI_OnlineResource) *uuid: ec5e3f2b-4ed9-448f-b801-25d039f1922d*

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/map>

name: Map Interface

description: Graphic geo-spatial search tool for locating completed and planned

DEMs.

function: (CI_OnLineFunctionCode) search

role: *inapplicable*

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/searchForm>

name: DEM text search tool

description: Text search tool for locating completed and planned NOAA tsunami

inundation DEMs.

function: (CI_OnLineFunctionCode) search

role: *inapplicable*

presentationForm: (CI_PresentationFormCode) mapDigital

series: (CI_Series)

name: NOAA Tsunami Inundation DEMs

issueIdentification: Named by primary coastal city, state in DEM.

associationType: (DS_AssociationTypeCode) largerWorkCitation

aggregationInfo: (MD_AggregateInformation)

aggregateDataSetName: (CI_Citation)

title: Digital Elevation Models of Key West, Florida: Procedures, Data Sources, and Analysis

date: (CI_Date)

date: 2011-09-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

contactInfo: (CI_Contact)

address: (CI_Address)

city: Boulder

administrativeArea: CO

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: Lisa A. Taylor

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: Barry W. Eakins

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: Kelly S. Carignan

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: Dorothy Z. Friday
role: (CI_RoleCode) originator
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: Pamela R. Grothe
role: (CI_RoleCode) originator
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: Matthew Love
role: (CI_RoleCode) originator
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: Elliot Lim
role: (CI_RoleCode) originator
citedResponsibleParty: (CI_ResponsibleParty)
positionName: Citation URL
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/getReport/3121>
name: Digital Elevation Models of Key West, Florida: Procedures, Data Sources and

Analysis

description: Report describing the development of the Key West, Florida DEM
function: (CI_OnLineFunctionCode) download
role: *inapplicable*
otherCitationDetails: 20 pages
associationType: (DS_AssociationTypeCode) crossReference
initiativeType: (DS_InitiativeTypeCode) userGuide
spatialRepresentationType: (MD_SpatialRepresentationTypeCode) grid
language: eng; USA
topicCategory: (MD_TopicCategoryCode) elevation
environmentDescription: Native Dataset Environment: Microsoft Windows 2000 Version 5.2 (Build 3790) Service Pack 2; ESRI ArcCatalog 9.2.4.1420
extent: (EX_Extent) *boundingExtent*
geographicElement: (EX_GeographicBoundingBox) *boundingGeographicBoundingBox*
westBoundLongitude: -82.18
eastBoundLongitude: -81.27
southBoundLatitude: 23.98
northBoundLatitude: 25.02
temporalElement: (EX_TemporalExtent) *boundingTemporalExtent*
extent:
TimePeriod: *d1e457*
beginPosition: 1852-01-01
endPosition: 2011-01-01

[return to top](#)

identificationInfo: *title: Color Shaded Relief ArcGIS Map Service (SV_ServiceIdentification) uuid: 2ee9eb81-fa5d-4a66-a256-4633eadfdec*
citation: (CI_Citation)
title: Digital Elevation Models: Color Shaded Relief ArcGIS Map Service
date: (CI_Date)
date: 2011-10-19
dateType: (CI_DateTypeCode) creation
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://ngdc.noaa.gov/mgg/coastal/coastal.html>
name: Integrated Models of Coastal Relief at NGDC
description: Please see NGDC's website for more information about Coastal DEMs at

NGDC.

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.arcgis.com/home/item.html?id=7f11b445da1a45ccb76b403018302d25>

name: ArcGIS Online Entry

description: ArcGIS Online listing for Digital Elevation Models: Color Shaded Relief ArcGIS Map Service.

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.geoplatform.noaa.gov/home/item.html?id=0e85102781904d46b7c0ac541cb86267>

name: NOAA Geoplatform Entry

description: NOAA Geoplatform listing for Digital Elevation Models: Color Shaded Relief ArcGIS Map Service

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: http://maps.ngdc.noaa.gov/rest/services/web_mercator/dem_extents/MapServer

name: DEM Footprints ArcGIS Map Service

description: A map service showing the location and coverage of land and seafloor digital elevation models (DEMs) available from NOAA's National Geophysical Data Center.

function: (CI_OnLineFunctionCode) search

role: (CI_RoleCode) publisher

abstract: This is a tiled map service showing color shaded relief visualizations of high-resolution digital elevation models (DEMs) of U.S. coastal regions. NOAA's National Geophysical Data Center (NGDC) builds and distributes high-resolution coastal digital elevation models (DEMs) that integrate ocean bathymetry and land topography to support NOAA's mission to understand and predict changes in Earth's environment, and conserve and manage coastal and marine resources to meet our Nation's economic, social, and environmental needs. They can be used for modeling of coastal processes (tsunami inundation, storm surge, sea-level rise, contaminant dispersal, etc.), ecosystems management and habitat research, coastal and marine spatial planning, and hazard mitigation and community preparedness. DEMs included in this visualization: High-resolution DEMs of select U.S. coastal communities and surrounding areas. Most are at a resolution of 1/3 to 1 arc-second (approx 10-30 m); U.S. Coastal Relief Model: A 3 arc-second (approx 90 m) comprehensive view of the conterminous U.S. coastal zone, Puerto Rico, and Hawaii; Southern Alaska Coastal Relief Model: A 24 arc-second (approx. 500 m) model of Southern Alaska, spanning the Bering Sea, Aleutian Islands, and Gulf of Alaska. This map service can be used as a basemap. It has a transparent background, so it can also be shown as a layer on top of a different basemap. Please see NGDC's corresponding DEM Footprints map service for polygon footprints and more information about the individual DEMs used to create this composite view.

pointOfContact: *title: Varner, Jesse* (CI_ResponsibleParty) *uuid: 834ce1aa-0606-4d09-86d8-875662bc0491*

individualName: Jesse Varner
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: Jesse.Varner@noaa.gov
role: (CI_RoleCode) pointOfContact
descriptiveKeywords: (MD_Keywords)
keyword: DATA ANALYSIS AND VISUALIZATION > GEOGRAPHIC INFORMATION SYSTEMS > WEB-BASED GEOGRAPHIC INFORMATION SYSTEMS
keyword: DATA MANAGEMENT/DATA HANDLING > DATA SEARCH AND RETRIEVAL
keyword: DATA ANALYSIS AND VISUALIZATION > VISUALIZATION/IMAGE PROCESSING
type: (MD_KeywordTypeCode) theme
thesaurusName: *title: NASA/Global Change Master Directory (GCMD) Earth Science Services Keywords (CI_Citation) uuid: 9f0de6e7-428b-11df-9879-0800200c9a66*
title: NASA/GCMD Services Keywords
date: *unknown*
citedResponsibleParty: *title: GCMD Keyword Page (CI_ResponsibleParty) uuid: 1edb41d0-428a-11df-9879-0800200c9a66*
organisationName: *inapplicable*
contactInfo: (CI_Contact)
onlineResource: *title: GCMD Keyword Page (CI_OnlineResource) uuid: 18ec3410-4289-11df-9879-0800200c9a66*
linkage: <http://gcmd.nasa.gov/Resources/valids/>
name: GCMD Keywords Page
description: This page describes the NASA GCMD Keywords, how to reference those keywords and provides download instructions.
function: (CI_OnLineFunctionCode) information
role: (CI_RoleCode) custodian
citedResponsibleParty: *title: GCMD User Support Office (CI_ResponsibleParty) uuid: 8294BEE08B11359FE040AC8C5AB460D1*
organisationName: NASA
positionName: GCMD User Support Office
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: gcmduso@gcmd.gsfc.nasa.gov
onlineResource: (CI_OnlineResource)
linkage: <http://gcmd.nasa.gov/MailComments/MailComments.jsf?rcpt=gcmduso>
name: GCMD Feedback Form
description: Have a Comment for the GCMD?
function: (CI_OnLineFunctionCode) information
role: (CI_RoleCode) custodian
resourceConstraints: (MD_Constraints)
useLimitation: These data not to be used for navigation. Although these data are of high quality and useful for planning and modeling purposes, they are not suitable for navigation. For official navigation products, please refer to the U.S. nautical charts available from the NOAA Office of Coast Survey: <http://www.nauticalcharts.noaa.gov>.
serviceType:
LocalName: ArcGIS Map Service
serviceTypeVersion: 10
extent: (EX_Extent)
geographicElement: (EX_GeographicBoundingBox)
extentTypeCode: 1
westBoundLongitude: -180
eastBoundLongitude: 180
southBoundLatitude: -90
northBoundLatitude: 90

couplingType: (SV_CouplingType) tight
containsOperations: (SV_OperationMetadata)
operationName: ArcGIS Server REST endpoint for cached map service
DCP: *unknown*
connectPoint: (CI_OnlineResource)

linkage:

http://maps.ngdc.noaa.gov/rest/services/web_mercator/dem_hillshades_mosaic/MapServer

protocol: http

applicationProfile: ArcGIS Map Service

name: Digital Elevation Models: Color Shaded Relief ArcGIS Cached Map Service

description: REST endpoint for Digital Elevation Models: Color Shaded Relief ArcGIS
cached map service

function: (CI_OnLineFunctionCode) search

containsOperations: (SV_OperationMetadata)

operationName: WMS Get Capabilities

DCP:

connectPoint: (CI_OnlineResource)

linkage:

[http://maps.ngdc.noaa.gov/soap/web_mercator/dem_hillshades_mosaic/MapServer/WMSServer?
request=GetCapabilities%26service=WMS](http://maps.ngdc.noaa.gov/soap/web_mercator/dem_hillshades_mosaic/MapServer/WMSServer?request=GetCapabilities%26service=WMS)

protocol: http

applicationProfile: Open Geospatial Consortium Web Map Service (WMS)

name: Digital Elevation Models: Color Shaded Relief Web Map Service (WMS)

description: Capabilities document for Open Geospatial Consortium Web Map Service for
Digital Elevation Models: Color Shaded Relief

function: (CI_OnLineFunctionCode) search

[return to top](#)

identificationInfo: *title: Footprints ArcGIS Map Service (SV_ServiceIdentification) uuid: 4486d41a-c4ff-4c08-8315-9d22a2be8b73*

citation: (CI_Citation)

title: Digital Elevation Model Footprints ArcGIS Map Service

date: (CI_Date)

date: 2011-02-15

dateType: (CI_DateTypeCode) creation

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center,
NESDIS, NOAA, Department of Commerce

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://ngdc.noaa.gov/mgg/coastal/coastal.html>

name: Integrated Models of Coastal Relief at NGDC

description: Please see NGDC's website for more information about Coastal DEMs at
NGDC.

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) publisher

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center,
NESDIS, NOAA, Department of Commerce

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: [http://www.arcgis.com/home/item?
id=fc9f6935b39949e4acda2070de720e88](http://www.arcgis.com/home/item?id=fc9f6935b39949e4acda2070de720e88)

name: ArcGIS Online Entry

description: ArcGIS Online listing for Digital Elevation Model Footprints ArcGIS Map
Service.

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) publisher
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: <http://www.geoplatform.noaa.gov/home/item.html?id=62340a814613492cb390c8b8f801cb83>
name: NOAA Geoplatform Entry
description: NOAA Geoplatform listing for Digital Elevation Model Footprints ArcGIS

Map Service

function: (CI_OnLineFunctionCode) information
role: (CI_RoleCode) publisher
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, Department of Commerce
contactInfo: (CI_Contact)
onlineResource: (CI_OnlineResource)
linkage: http://maps.ngdc.noaa.gov/rest/services/web_mercator/dem_hillshades_mosaic/MapServer
name: DEM Color Shaded Relief Map Service
description: A map service showing color shaded relief visualizations of land and seafloor digital elevation models (DEMs) available from NOAA's National Geophysical Data Center.

function: (CI_OnLineFunctionCode) search
role: (CI_RoleCode) publisher
abstract: A map service showing the location and coverage of land and seafloor digital elevation models (DEMs) available from NOAA's National Geophysical Data Center. NOAA's National Geophysical Data Center (NGDC) builds and distributes high-resolution, coastal digital elevation models (DEMs) that integrate ocean bathymetry and land topography to support NOAA's mission to understand and predict changes in Earth's environment, and conserve and manage coastal and marine resources to meet our Nation's economic, social, and environmental needs. They can be used for modeling of coastal processes (tsunami inundation, storm surge, sea-level rise, contaminant dispersal, etc.), ecosystems management and habitat research, coastal and marine spatial planning, and hazard mitigation and community preparedness. Layers available in the map service: Layers 1-4: DEMs by Category (includes various DEMs, both hosted at NGDC, and elsewhere on the web); Layers 6-11: NGDC DEM Projects (DEMs hosted at NGDC, color-coded by project); Layer 12: All NGDC Bathymetry DEMs (All bathymetry or bathy-topo DEMs hosted at NGDC).

pointOfContact: *title: Varner, Jesse* (CI_ResponsibleParty) *uuid: 834ce1aa-0606-4d09-86d8-875662bc0491*

individualName: Jesse Varner
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: Jesse.Varner@noaa.gov

role: (CI_RoleCode) pointOfContact
descriptiveKeywords: (MD_Keywords)
keyword: DATA ANALYSIS AND VISUALIZATION > GEOGRAPHIC INFORMATION SYSTEMS > WEB-BASED GEOGRAPHIC INFORMATION SYSTEMS

keyword: DATA MANAGEMENT/DATA HANDLING > DATA SEARCH AND RETRIEVAL
keyword: DATA ANALYSIS AND VISUALIZATION > VISUALIZATION/IMAGE PROCESSING

type: (MD_KeywordTypeCode) theme
thesaurusName: *title: NASA/Global Change Master Directory (GCMD) Earth Science Services Keywords* (CI_Citation) *uuid: 9f0de6e7-428b-11df-9879-0800200c9a66*

title: NASA/GCMD Services Keywords

date: *unknown*

citedResponsibleParty: *title: GCMD Keyword Page* (CI_ResponsibleParty) *uuid: 1edb41d0-*

428a-11df-9879-0800200c9a66

organisationName: *inapplicable*

contactInfo: (CI_Contact)

onlineResource: *title: GCMD Keyword Page (CI_OnlineResource) uuid: 18ec3410-*

4289-11df-9879-0800200c9a66

linkage: <http://gcmd.nasa.gov/Resources/valids/>

name: GCMD Keywords Page

description: This page describes the NASA GCMD Keywords, how to reference those keywords and provides download instructions.

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) custodian

citedResponsibleParty: *title: GCMD User Support Office (CI_ResponsibleParty) uuid:*

8294BEE08B11359FE040AC8C5AB460D1

organisationName: NASA

positionName: GCMD User Support Office

contactInfo: (CI_Contact)

address: (CI_Address)

electronicMailAddress: gcmduso@gcmd.gsfc.nasa.gov

onlineResource: (CI_OnlineResource)

linkage: <http://gcmd.nasa.gov/MailComments/MailComments.jsf?rcpt=gcmduso>

name: GCMD Feedback Form

description: Have a Comment for the GCMD?

function: (CI_OnLineFunctionCode) information

role: (CI_RoleCode) custodian

resourceConstraints: (MD_Constraints)

useLimitation: These data not to be used for navigation. Although these data are of high quality and useful for planning and modeling purposes, they are not suitable for navigation. For official navigation products, please refer to the U.S. nautical charts available from the NOAA Office of Coast Survey: <http://www.nauticalcharts.noaa.gov>.

serviceType:

LocalName: ArcGIS Map Service

serviceTypeVersion: 10

extent: (EX_Extent)

geographicElement: (EX_GeographicBoundingBox)

extentTypeCode: 1

westBoundLongitude: -180

eastBoundLongitude: 180

southBoundLatitude: -90

northBoundLatitude: 90

couplingType: (SV_CouplingType) tight

containsOperations: (SV_OperationMetadata)

operationName: ArcGIS Server REST endpoint for dynamic map service

DCP: *unknown*

connectPoint: (CI_OnlineResource)

linkage: http://maps.ngdc.noaa.gov/rest/services/web_mercator/dem_extents/MapServer

protocol: http

applicationProfile: ArcGIS Map Service

name: Digital Elevation Model Footprints ArcGIS Dynamic Map Service

description: REST endpoint for Digital Elevation Model Footprints ArcGIS dynamic map

service

function: (CI_OnLineFunctionCode) search

containsOperations: (SV_OperationMetadata)

operationName: WMS Get Capabilities

DCP:

connectPoint: (CI_OnlineResource)

linkage:

http://maps.ngdc.noaa.gov/soap/web_mercator/dem_extents/MapServer/WMSServer?

[request=GetCapabilities%26service=WMS](#)

protocol: http

applicationProfile: Open Geospatial Consortium Web Map Service (WMS)

name: Digital Elevation Model Footprints Web Map Service (WMS)

description: Capabilities document for Open Geospatial Consortium Web Map Service for Digital Elevation Model Footprints

function: (CI_OnLineFunctionCode) search

[return to top](#)

distributionInfo: (MD_Distribution)

distributionFormat: (MD_Format)

name: ESRI Arc ASCII

version: 1

specification: ASCII text version of ESRI ArcGIS raster format

fileDecompressionTechnique: WINZIP

distributor: (MD_Distributor)

distributorContact: *title: DEM information (CI_ResponsibleParty) uuid: 936e0d44-7e51-4b06-be51-e9b445e19a7d*

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

positionName: DEM Information

contactInfo: (CI_Contact)

address: (CI_Address)

electronicMailAddress: dem.info@noaa.gov

role: (CI_RoleCode) pointOfContact

transferOptions: (MD_DigitalTransferOptions)

transferSize:

Real: 210272000

onLine: (CI_OnlineResource)

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/getArchive/3121?>

[gridFormat=ESRI+Arc+ASCII](#)

name: Key West, Florida Coastal Digital Elevation Model ASCII DEM

description: Download DEM, metadata and readme file.

function: (CI_OnLineFunctionCode) download

transferOptions: (MD_DigitalTransferOptions)

onLine: (CI_OnlineResource)

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/download/3121>

name: Key West, Florida Coastal Digital Elevation Model Homepage

description: Information, preview and access DEM, metadata record and development

report.

function: (CI_OnLineFunctionCode) information

transferOptions: (MD_DigitalTransferOptions)

onLine: *title: DEM text search (CI_OnlineResource) uuid: eac4bad6-f579-4d6a-bd74-1821f2f02959*

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/search>

name: DEM text search tool

description: Text search tool for locating completed and planned DEMs.

function: (CI_OnLineFunctionCode) search

transferOptions: (MD_DigitalTransferOptions)

onLine: *title: DEM map search (CI_OnlineResource) uuid: ec5e3f2b-4ed9-448f-b801-25d039f1922d*

linkage: <http://www.ngdc.noaa.gov/dem/squareCellGrid/map>

name: Map Interface

description: Graphic geo-spatial search tool for locating completed and planned DEMs.

function: (CI_OnLineFunctionCode) search

[return to top](#)

dataQualityInfo: (DQ_DataQuality)

scope: (DQ_Scope)

level: (MD_ScopeCode) dataset

report: (DQ_AbsoluteExternalPositionalAccuracy)

nameOfMeasure: Horizontal Positional Accuracy Report

evaluationMethodDescription: The horizontal accuracy of bathymetric and topographic features in the DEM is dependent upon the accuracy of the input datasets used to determine corresponding cell values. Topography: Positional accuracy of input topographic datasets limits accuracy of corresponding cell values in DEM. SFWMD lidar DEM: 1.15 meters; USGS NED DEM: 10 meters. DEM cell-value relative-contribution factors: SFWMD: 10; NED: 1. Bathymetry: less than 1 meter to 10's of meters. Positional accuracy of input bathymetric datasets limits accuracy of corresponding cell values in DEM. NOS: less than 1 meter to tens of meters; Multibeam surveys: 30 meters. USACE surveys: less than a meter. DEM cell-value relative-contribution factors: NOS surveys: 10; Multibeam surveys: 1; USACE surveys: 10; ENC soundings: 1.

result: *missing*

report: (DQ_AbsoluteExternalPositionalAccuracy)

nameOfMeasure: Vertical Positional Accuracy Report

evaluationMethodDescription: The vertical accuracy of bathymetric and topographic features in the DEM is dependent upon the accuracy of the input datasets used to determine corresponding cell values. Vertical accuracy of input topographic datasets limits accuracy of corresponding cells in DEM. SFWMD lidar DEM: 0.18 to 0.36 meters; USGS NED: 7 to 15 meters. DEM cell-value relative-contribution factors: SFWMD: 10; NED: 1. Bathymetry: 0.3 meters to 5% of water depth. Vertical accuracy of input bathymetric datasets limits accuracy of corresponding cells in DEM. NOS: less than 1 meter to tens of meters; Multibeam surveys: less than 1 meter to tens of meters; USACE surveys: less than a meter. DEM cell-value relative-contribution factors: NOS surveys: 10; Multibeam surveys: 1; USACE surveys: 10; ENC soundings: 1. Gridding interpolation to determine cell values between sparse NOS hydrographic soundings in deep water degrades the vertical accuracy of deep-water elevations.

result: *missing*

report: (DQ_CompletenessCommission)

evaluationMethodDescription: NGDC made every effort to obtain all available digital topographic and bathymetric datasets in the region for use in building the DEM.

result: *unknown*

report: (DQ_ConceptualConsistency)

measureDescription: Datasets were visually compared internally and externally (with other overlapping datasets and satellite images and maps) in ESRI ArcGIS for identification of anomalous elevations or data inconsistencies. Where elevation inconsistencies occurred, the most recent and/or highest resolution data set was selected for use in that region. Elevations in the older and/or lower-resolution datasets were deleted prior to building the DEM.

result: *unknown*

lineage: (LI_Lineage)

processStep: (LE_ProcessStep)

description: All datasets obtained by NGDC were converted to common horizontal and vertical datums of WGS84 geographic and North American Vertical Datum of 1988, respectively, using FME. They were also converted to common file format, ESRI point shapefiles, for visualization and inspection.

dateTime:

DateTime: 2011-05-05T00:00:00

processor: *title: Barry Eakins (CI_ResponsibleParty) uuid: A5B0BAEE-2A90-103F-E040-0AC8C5BB459F*

individualName: Barry W. Eakins

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

positionName: Research Scientist

contactInfo: (CI_Contact)

phone: (CI_Telephone)

voice: 303-497-6505

facsimile: 303-497-6513
address: (CI_Address)
deliveryPoint: NOAA/NESDIS/NGDC
deliveryPoint: 325 Broadway, E/GC3
city: Boulder
administrativeArea: Colorado
postalCode: 80305-3328
country: USA
electronicMailAddress: Barry.Eakins@noaa.gov
hoursOfService: 9am-5pm, M-F, Mountain Time
contactInstructions: Contact NGDC's Marine Geology and Geophysics Division.
<http://www.ngdc.noaa.gov/mgg/aboutmgg/contacts.html>
role: (CI_RoleCode) pointOfContact
processStep: (LE_ProcessStep)
description: Datasets were visually inspected with ArcGIS for identification and editing of data anomalies. Datasets were then compared with overlapping datasets to ensure data consistency.
dateTime:
DateTime: 2011-01-18T00:00:00
processStep: (LE_ProcessStep)
description: Multibeam surveys were gridded to 1 arc-second spacing (~10 meters) using MB-System's 'mbgrid' tool. The resulting Arc ASCII grid was imported into ArcGIS.
dateTime:
DateTime: 2011-01-25T00:00:00
processStep: (LE_ProcessStep)
description: xyz files of the bathymetric data were surfaced using GMT's 'surface' tool onto a 1 arc-second grid that interpolated to fill empty cells. Points extracted every 10 meters along the coastline were also included to ensure that the bathymetric grid reached zero at the coast. The resulting Arc ASCII grid was imported into ArcGIS and clipped to the coastline to remove values over land.
dateTime:
DateTime: 2011-08-09T00:00:00
processStep: (LE_ProcessStep)
description: xyz files for each input dataset were gridded using MB-System's 'mbgrid' tool, which utilizes a high-tension spline interpolation method to fill grid cells with no input elevation values. Preferential weighting was given to more recent, higher-accuracy datasets. Gridding was performed in quadrants, each with a 5% data buffer. The grids were imported in ArcGIS and seamlessly merged to create the final DEM.
dateTime:
DateTime: 2011-08-16T00:00:00
processStep: (LE_ProcessStep)
description: The DEM was quantitatively evaluated by comparing with source datasets and with elevation values extracted from NGS geodetic monuments. It was visually evaluated by converting to UTM-zone coordinates (units of meters horizontally and vertically) and then creating a slope grid to identify gridding artifacts in the DEM.
dateTime:
DateTime: 2011-08-23T00:00:00
source: (LI_Source)
description: Source Contribution: coastline and bathymetric sounding data ; Source Type:
online
sourceCitation: (CI_Citation)
title: Electronic Navigational Charts and Raster Nautical Charts
date: (CI_Date)
date: 2010-01-01
dateType: (CI_DateTypeCode) publication
citedResponsibleParty: (CI_ResponsibleParty)
organisationName: DOC/NOAA/NOS/OCS > Office of Coast Survey, National Ocean Service, NOAA, U.S. Department of Commerce
role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.nauticalcharts.noaa.gov/>

name: OCS Electronic Navigational Charts and Raster Nautical Charts

description: Digital database of NOAA nautical chart information.

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimeInstant: *d1e881*

timePosition: 2010-01-01

source: (LI_Source)

description: Source Contribution: multibeam swath sonar surveys downloaded from web site. ; Source Type: online

sourceCitation: (CI_Citation)

title: NGDC Multibeam Bathymetry Database

date: (CI_Date)

date: 2010-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.ngdc.noaa.gov/mgg/bathymetry/multibeam.html>

name: NGDC Multibeam Bathymetry Database

description: Multibeam swath sonar survey data

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimePeriod: *d1e992*

beginPosition: 1995-01-01

endPosition: 2004-01-01

source: (LI_Source)

description: Source Contribution: hydrographic survey data; Source Type: online

sourceCitation: (CI_Citation)

title: Key West - Hydrographic Harbor surveys

date: (CI_Date)

date: 2010-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: U.S. Army Corps of Engineers, Jacksonville District

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage:

<http://www.saj.usace.army.mil/Divisions/Operations/Branches/Navigation/HydroSurvey/index.htm>

name: U.S. Army Corp of Engineers, Jacksonville District, Hydrographic Surveys

description: Hydrographic surveys of the Jacksonville District

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimePeriod: *d1e1055*

beginPosition: 2009-01-01

endPosition: 2011-01-01

source: (LI_Source)

description: Source Contribution: hydrographic surveys ; Source Type: online

sourceCitation: (CI_Citation)

title: NOS Hydrographic Surveys

date: (CI_Date)

date: 2010-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.ngdc.noaa.gov/mgg/bathymetry/hydro.html>

name: NOS Hydrographic Survey Database

description: Digital database of NOS hydrographic surveys that date back to the late 19th century.

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimePeriod: *d1e1169*

beginPosition: 1852-01-01

endPosition: 2003-01-01

source: (LI_Source)

description: Source Contribution: topographic DEM downloaded from web site. ; Source Type: online

sourceCitation: (CI_Citation)

title: USGS NED topography

date: (CI_Date)

date: 2000-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOI/USGS > U.S. Geological Survey, Department of the Interior

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://ned.usgs.gov/>

name: USGS National Elevation Dataset

description: Digital database of U.S. topography, in raster form (DEM)

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)
temporalElement: (EX_TemporalExtent)
extent:
TimeInstant: *d1e1270*
timePosition: 2000-01-01

source: (LI_Source)

description: Source Contribution: Extracted 2 foot contours from 2008 5 meter resolution FDEM NAVD 88 lidar surveys ; Source Type: online

sourceCitation: (CI_Citation)

title: Florida Division of Emergency Management Lidar-derived countours

date: (CI_Date)

date: 2008-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: Florida Division of Emergency Management

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.fgdl.org/download/index.html>

name: Florida Geographic Data Library GIS Data Download Page

description: GIS data download page with metadata and ftp links

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

presentationForm: (CI_PresentationFormCode) modelDigital

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimeInstant: *d1e1375*

timePosition: 2010-01-01

source: (LI_Source)

description: Source Contribution: Raster DEM downloaded from web site. ; Source Type: online

sourceCitation: (CI_Citation)

title: Lidar DEM

date: (CI_Date)

date: 2007-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: South Florida Water Management District

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://www.sfwmd.gov/portal/page/portal/sfwmdmain/home%20page>

name: 2007-2008 Florida Keys 10ft DEM

description: Raster file of lidar data collected by FDEM for the Florida Keys

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimePeriod: *d1e1479*

beginPosition: 2007-01-01

endPosition: 2008-01-01

source: (LI_Source)

description: Source Contribution: tidal information table from which vertical datum adjustment information are interpreted; Source Type: online

sourceCitation: (CI_Citation)

title: Bench Mark Data Sheets with Tidal Datum References

date: (CI_Date)

date: 2010-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NOS National Ocean Service, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: http://tidesandcurrents.noaa.gov/station_retrieve.shtml

name: Tides and Currents Station Selection

description: Bench Mark Data Sheets

function: (CI_OnLineFunctionCode) VIEW

role: *inapplicable*

presentationForm: (CI_PresentationFormCode) documentDigital

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimePeriod: *d1e1586*

beginPosition: 2006-01-01

endPosition: 2010-01-01

source: (LI_Source)

description: Source Contribution: vertical datum transformation tool ; Source Type: online

sourceCitation: (CI_Citation)

title: VDatum software v. 2.3.3

date: (CI_Date)

date: 2009-01-01

dateType: (CI_DateTypeCode) publication

citedResponsibleParty: (CI_ResponsibleParty)

organisationName: DOC/NOAA/NOS National Ocean Service, NOAA, U.S. Department of Commerce

role: (CI_RoleCode) originator

citedResponsibleParty: (CI_ResponsibleParty)

positionName: Citation URL

contactInfo: (CI_Contact)

onlineResource: (CI_OnlineResource)

linkage: <http://vdatum.noaa.gov/welcome.html>

name: VDatum

description: Vertical Datum Transformation tool

function: (CI_OnLineFunctionCode) download

role: *inapplicable*

presentationForm: (CI_PresentationFormCode) modelDigital

otherCitationDetails: Florida - South Florida, Naples to Fort Lauderdale FL, and Florida Bay, Version 01

sourceExtent: (EX_Extent)

temporalElement: (EX_TemporalExtent)

extent:

TimeInstant: *d1e1696*

timePosition: 2010-01-01

[return to top](#)

metadataMaintenance: (MD_MaintenanceInformation)
maintenanceAndUpdateFrequency: (MD_MaintenanceFrequencyCode) annually
dateOfNextUpdate: 2012-09-01
maintenanceNote: This metadata was automatically generated from the Content Standard for Digital Geospatial Metadata: Extensions for Remote Sensing Metadata standard (version FGDC-STD-012-2002) using the 2012-08-07. f version of the FGDC RSE to ISO 19115-2 transform for DEMs.
maintenanceNote: Last Translation from FGDC 2012-08-07T15:55:03.292-06:00
maintenanceNote: Last Metadata Review Date: 2011-09-01
contact: *title: Kelly Carignan (CI_ResponsibleParty) uuid: dad4ff9a-31bd-47dc-a653-8ae3e7948944*
individualName: Kelly Carignan
organisationName: DOC/NOAA/NESDIS/NGDC > National Geophysical Data Center, NESDIS, NOAA, U.S. Department of Commerce
contactInfo: (CI_Contact)
address: (CI_Address)
electronicMailAddress: kelly.carignan@noaa.gov
role: (CI_RoleCode) pointOfContact
[return to top](#)

acquisitionInformation: (MI_AcquisitionInformation)
instrument: (MI_Instrument)
identifier: *inapplicable*
type: Light Detection and Ranging
instrument: (MI_Instrument)
identifier: *inapplicable*
type: Multibeam Swath Bathymetry System
instrument: (MI_Instrument)
identifier: *inapplicable*
type: Sound Navigation and Ranging
operation: (MI_Operation)
identifier: (MD_Identifier)
code: Tsunami Inundation Gridding Project
status: *missing*
parentOperation: *inapplicable*
platform: (MI_Platform)
identifier: (MD_Identifier)
code: Digital Elevation Model
description: *missing*
instrument: *missing*